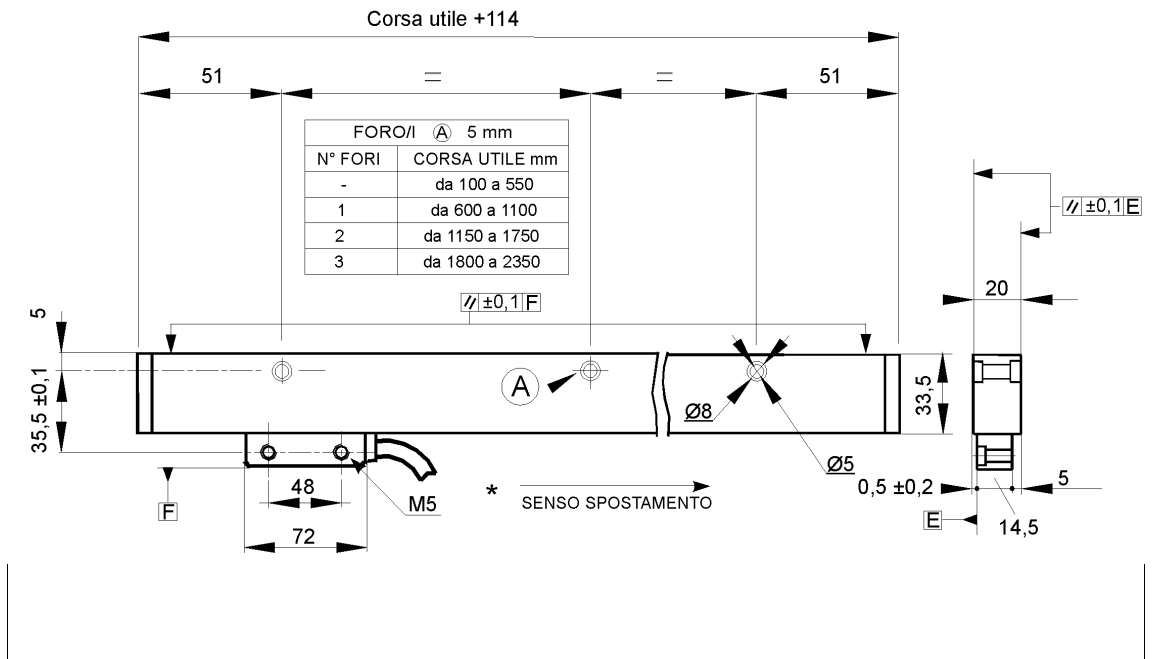


RV20 linear transducer is an optical linear detector with a glass measurement scale graduated in photo-etched chromium. RV20 is available in several sizes up to a maximum reading length of 2350 mm and with a resolution 10 µm or 5 µm. Characterized by small dimensions (20x48,5 mm). Particularly fit to be used on multiaxes machine tools, lathes, milling machines etc..

Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Optical linear detector sistem with a glass measurement scale graduated in photo-etched Cr (pitch 20µm).
- Weight (head+transducer).....:0,4 kg + 1,2 kg/m
- Resolution.....:± 10 µm ; ± 5 µm (with multiplic. x4)
- Standard stroke.....:100 ÷ 2350 mm with 50mm steps (see table on pag.2)
- Graduated scale made of special glass with dilatation coefficient similar to machine tools beds.
- Sliding detecting head equipped with special device to keep parallelism with glass line.
- Cover in anodized aluminium.
- Protection.....: IP53 with neoprene protections (°)
- Max reading speed.....: 120 m/min max (resolut. 10µm); 60 m/min max (resolut. 5µm) (**)
- Starting force.....: 6N with sealings - 3N without sealings
- Impact resistance.....: ≤ 10 G (11 ms)
- Vibration resistance.....: ≤ 3 G (40 ÷ 2000 Hz)
- Standard cable lenght.....: 4m
- Sensors.....: photodiodes in push-pull
- Light source.....: LED
- Operating temperature.....: 0 ÷ 50 °C
- Storage temperature.....: -30 ÷ 70 °C
- Zero marking.....: every 25 mm or masked upon request
- Power supply.....: 5V ± 5%; 12V ±5% (only standard () electronic)
- Max consumption.....: max 100 mA
- Connector output.....: VB (standard); VD (line driver)

(**) Intermittent max RPM + 30% of continuous max RP

(°) IP accord. to CEI EN 60529, EN 60529, IEC 529 Stand



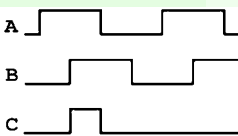
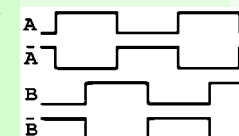
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* Fax: +39 011 712613

USEFUL STROKES AND TOTAL LENGTHS

Useful stroke mm	Total lenght mm	Useful stroke mm	Total lenght mm	Useful stroke mm	Total lenght mm	Useful stroke mm	Total lenght mm	Useful stroke mm	Total lenght mm	Useful stroke mm	Total lenght mm
100	214	500	614	900	1014	1300	1414	1700	1814	2100	2214
150	264	550	664	950	1064	1350	1464	1750	1864	2150	2264
200	314	600	714	1000	1114	1400	1514	1800	1914	2200	2314
250	364	650	764	1050	1164	1450	1564	1850	1964	2250	2364
300	414	700	814	1100	1214	1500	1614	1900	2014	2300	2414
350	464	750	864	1150	1264	1550	1664	1950	2064	2350	2464
400	514	800	914	1200	1314	1600	1714	2000	2114	-	-
450	564	850	964	1250	1364	1650	1764	2050	2164	-	-

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
	STANDARD (connector VB - 6c)	10	N	DRIVER 26LS31 (connector VD - 9c)	20						
* 			* 								
Tollerance between phases $\pm 35^\circ$, simmetry $\pm 15^\circ$											

ORDERING INFORMATION

(100 X 400 X 700)(1000X1300)(1600X1900X2200)
 (150 X 450 X 750)(1050X1350)(1650X1950X2250)
 (200 X 500 X 800)(1100X1400)(1700X2000X2300)
 (250 X 550 X 850)(1150X1450)(1750X2050X2350)
 (300 X 600 X 900)(1200X1500)(1800X2100X -)
 (350 X 650 X 950)(1250X1550)(1850X2150X -)

STANDARD (connector VB - 6c) ()
 DRIVER 26LS31 (connector VD - 9c) (N)

FAMILY	OPTIONS	MODEL	USEFUL STROKE (mm)	POWER SUPPLY	VERSION	ELECTRONIC	RESOLUTION
L	RV20		500	5	BZ	N	5
	() (X)	UPON REQUEST		(5) (12)	5V ± 5% 12V ± 5% with electr.(		5 μm 10 μm
							(5) (10) ()

Product manufactured according to UNI EN ISO 9001:2008, supplied with CHECKING and CONFORMITY declaration with CE mark and with TWO (2) YEARS WARRANTY starting from delivery date.

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data sheet IL006 E0 pag: 02.RV20

2/2



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